

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 03079614
PUBLICATION DATE : 04-04-91

APPLICATION DATE : 22-08-89
APPLICATION NUMBER : 01214109

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INT.CL. : C08F299/00 C08G 18/67 G02C 7/00

TITLE : PLASTIC LENS MATERIAL HAVING HIGH REFRACTIVE INDEX AND LOW SPECIFIC GRAVITY

ABSTRACT : PURPOSE: To obtain the title lens material having high refractive index, excellent impact resistance and low specific gravity by blending a specific monomer with polyisocyanate compound and thiol compound, subjecting to thiourethanization reaction and radical polymerization reaction.

CONSTITUTION: (A) A radically polymerizable unsaturated group-containing monomer having a thiol group or a hydroxyl group in the molecule is reacted with (B) a polyisocyanate compound containing plural isocyanate groups in the molecule, (C) a di-or trithiol compound and (D) a monomer containing an unsaturated monomer polymerizable with the component A and the component C and polymerized in the ratio wherein when total number of mols of thiol group or hydroxyl group of the component A is a, number of mols of isocyanate group of the component B is b and number of mols of thiol group of the component C is c, the value of b/c is ≤ 1 and $(a+b)/b \geq 1.5$ and the amount of the component D is 20-80wt.% based on the whole amounts to give the objective material.

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